



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,580	11/12/2003	Woo Seong Yoon	2080-3-190	2013

35884 7590 11/27/2007
LEE, HONG, DEGERMAN, KANG & SCHMADEKA
660 S. FIGUEROA STREET
Suite 2300
LOS ANGELES, CA 90017

EXAMINER

DINH, KHANH Q

ART UNIT	PAPER NUMBER
----------	--------------

2151

MAIL DATE	DELIVERY MODE
-----------	---------------

11/27/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/713,580

Applicant(s)

YOON ET AL.

Examiner

Khanh Dinh

Art Unit

2151

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 13-37 is/are rejected.
- 7) ☒ Claim(s) 3-11, 38 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>11/29/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-38 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 2, 12-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Lamkin et al., US Pub. no.20050251749.

As to claim 1, Lamkin discloses a method for reproducing contents information in an interactive optical disc device, comprising the steps of:

- (a) synchronizing and reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet (synchronizing the playback of both network and readable medium, see abstract, figs.1, 2, [0034] to [0041]);
- b) if the sending of said contents information from said contents provider server is suspended or delayed, generating a command for requesting re-sending of specific contents information, with reference to specific information contained in normally

Art Unit: 2151

reproduced last contents information, and sending the generated command to said contents provider server (see [0047] to [0053]); and

c) reproducing said specific contents information re-sent from said contents provider server in response to said command together with data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (see [0054] to [0066] and [0078] to [0083]).

As to claim 2, Lamkin discloses wherein said specific information contained in said normally reproduced last contents information includes at least one of playback time information, contents information offset information, and offset information of said data read from said interactive optical disc (see [0106] to [0110] and [0129] to [0135]).

As to claim 12, Lamkin discloses a method for providing contents information in a contents provider server, comprising the steps of:

a) sequentially sending data packets containing contents information whose sending is requested by an interactive optical disc device connected via the Internet, and specific information regarding said contents information whose sending is requested (synchronizing the playback of both network and readable medium, see abstract, figs. 1, 2, abstract, [0034] to [0041]);

b) if the sending of said requested contents information is suspended or delayed, receiving a command for requesting re-sending of specific contents information, from said interactive optical disc device (see [0047] to [0053]); and

Art Unit: 2151

c) re-sending a data packet containing said specific contents information and specific information regarding it to said interactive optical disc device in response to said command (see [0054] to [0066] and [0078] to [0083]).

As to claim 13, Lamkin discloses said sent contents information is audio data to be reproduced synchronously with video data read from an interactive optical disc in said interactive optical disc device (see [0092] to [0104]).

As to claim 14, Lamkin discloses said specific information includes at least one of playback time information, contents information offset information, and offset information of data read from an interactive optical disc (see [0107] to [0113]).

As to claim 15, Lamkin discloses said command for requesting the re-sending of said specific contents information includes a parameter, said parameter being information regarding said specific contents information (see [0114] to [0126]).

As to claim 16, Lamkin discloses said step c) includes the steps of: c-1) seeking a position of data corresponding to said information regarding said specific contents information; c-2) sending a command for notification of the re-sending of said specific contents information to said interactive optical disc device; and c-3) reading said specific contents information at said position and re-sending said data packet containing said specific contents information and said specific information regarding it to said

Art Unit: 2151

interactive optical disc device (see [0054] to [0066] and [0078] to [0083]).

As to claim 17, Lamkin discloses a method for reproducing contents information in an interactive optical disc device, comprising the steps of:

- a) downloading and managing offset table information from a contents provider server connected via the Internet (synchronizing the playback of both network and readable medium, see abstract, figs. 1, 2, abstract, [0034] to [0041]);
- b) synchronizing and reproducing contents information sent and downloaded from said contents provider server and data read from an interactive optical disc (see [0047] to [0053]); and
- c) if the sending of said contents information from said contents provider server is suspended or delayed, generating a command for requesting re-sending of specific contents information, with reference to said offset table information, and sending the generated command to said contents provider server (see [0054] to [0066] and [0078] to [0083]); and
- d) reproducing said specific contents information re-sent from said contents provider server in response to said command together with data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (see [0054] to [0066] and [0078] to [0083]).

As to claim 18, Lamkin discloses said offset table information includes playback time information, offset information of said data read from said interactive optical disc and

contents information offset information in a linked manner (see [0092] to [0104]).

As to claim 19, Lamkin discloses said step c) includes the steps of: c-1) extracting information regarding normally reproduced last contents information from said offset table information if the sending of said contents information from said contents provider server is suspended or delayed; c-2) calculating information regarding re-synchronizable contents information based upon the extracted information and c-3) generating a command for requesting re-sending of specific contents information corresponding to the calculated information regarding said re-synchronizable contents information and sending the generated command to said contents provider server (see [0054] to [0066] and [0078] to [0083]).

As to claim 20, Lamkin discloses said information regarding said re-synchronizable contents information is calculated with reference to a bandwidth of a current network bit rate (see [0054] to [0066] and [0078] to [0083]).

As to claim 21, Lamkin discloses said command for requesting the re-sending of said specific contents information includes a parameter, said parameter being said information regarding said re-synchronizable contents information (see [0107] to [0113]).

As to claim 22, Lamkin discloses said step d) includes the steps of: d-1) receiving a

Art Unit: 2151

command for notification of the re-sending of said specific contents information from said contents provider server; and d-2) after said re-sending notification command is received, reproducing said specific contents information re-sent from said contents provider server together with said data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (see [0054] to [0066] and [0078] to [0083]).

As to claim 23, Lamkin discloses said contents information sent from said contents provider server is audio data, and said data read from said interactive optical disc includes video data (see [0107] to [0113]).

As to claim 24, Lamkin discloses said contents information sent from said contents provider server is audio data, and said data read from said interactive optical disc includes video data (see [0107] to [0113]).

As to claim 25, Lamkin discloses a method for providing contents information in a contents provider server, comprising the steps of:

a) sending offset table information regarding contents information whose sending is requested by an interactive optical disc device connected via the Internet (synchronizing the playback of both network and readable medium, see abstract, figs. 1, 2, abstract, [0034] to [0041]);

b) if the sending of said offset table information is completed, sequentially sending said contents information whose sending is requested by said interactive optical disc device (see [0054] to [0066] and [0078] to [0083]);

c) if the sending of said requested contents information is suspended or delayed , receiving a command for requesting re-sending of specific contents information, from said interactive optical disc device and d) re-sending said specific contents information to said interactive optical disc device in response to said command (see [0054] to [0066] and [0078] to [0083]).

As to claim 26, Lamkin discloses said sent contents information is audio data to be reproduced synchronously with video data read from an interactive optical disc in said interactive optical disc device (see [0054] to [0066] and [0078] to [0083]).

As to claim 27, Lamkin discloses said offset table information includes playback time information, offset information of data read from an interactive optical disc and contents information offset information in a linked manner (see [0107] to [0113]).

As to claim 28, Lamkin discloses said command for requesting the re-sending of said specific contents information includes a parameter, said parameter being information regarding said specific contents information (see [0107] to [0113]).

As to claim 29, Lamkin discloses said step d) includes the steps of: d-1) seeking a

Art Unit: 2151

position of data corresponding to said information regarding said specific contents information; d-2) sending a command for notification of the re-sending of said specific contents information to said interactive optical disc device; and d-3) reading said specific contents information at said position and re-sending it to said interactive optical disc device (see [0114] to [0126]).

As to claim 30, Lamkin discloses a method for reproducing contents information in an interactive optical disc device, comprising the steps of:

a) synchronizing and reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet (synchronizing the playback of both network and readable medium, see abstract, figs. 1, 2, abstract, [0034] to [0041] and [0161] to [0167]); and

b) if a size of contents information downloaded into a buffer memory of said interactive optical disc device and not reproduced yet is smaller than or equal to a first predetermined reference value or greater than or equal to a second predetermined reference value, sending a command for requesting adjustment of a contents information bit rate to said contents provider server (see [0054] to [0066] and [0078] to [0083]).

As to claim 31, Lamkin discloses said step a) includes the steps of: a-1) over said Internet, attempting a connection to said contents provider server having said contents information to be reproduced synchronously with said data read from said interactive

Art Unit: 2151

optical disc (see [0054] to [0066]); a-2) generating a command for requesting sending of said contents information, based upon information necessary for the connection sent from said contents provider server, and sending the generated command to said contents provider server; and a-3) synchronizing and reproducing said contents information sent and downloaded from said contents provider server in response to said sending request command and said data read from said interactive optical disc (see [0054] to [0066] and [0078] to [0083]).

As to claim 32, Lamkin discloses said information necessary for the connection sent from said contents provider server includes an Internet protocol (IP) address and port number of said contents provider server (see [0161] to [0168] and [0172] to [0174]).

As to claim 33, Lamkin discloses said command for requesting the adjustment of said contents information bit rate includes a parameter, said parameter being an available memory size of said buffer memory (see [0161] to [0168] and [0172] to [0174]).

As to claim 34, Lamkin discloses a method for providing contents information in a contents provider server, comprising the steps of:

a) sequentially sending contents information whose sending is requested by an interactive optical disc device connected via the Internet (synchronizing the playback of both network and readable medium, see abstract, figs. 1, 2, abstract, [0034] to [0041] and [0161] to [0167]); and

Art Unit: 2151

b) if a command for requesting adjustment of a contents information bit rate is received from said interactive optical disc device, adjusting the bit rate in response to the received command and sending the requested contents information at the adjusted bit rate (see [0054] to [0066] and [0078] to [0083]).

As to claim 35, Lamkin discloses said step a) includes the steps of: a-1) if a connection from said interactive optical disc device is attempted over said Internet, sending information necessary for the connection to said interactive optical disc device; and a-2) if a command for requesting sending said contents information is received from said interactive optical disc device, sequentially sending said contents information whose sending is requested by said interactive optical disc device (see [0054] to [0066] and [0078] to [0083]).

As to claim 36, Lamkin discloses said information necessary for the connection includes an IP address and port number of said contents provider server (see [0054] to [0066] and [0078] to [0083]).

As to claim 37, Lamkin discloses said command for requesting the adjustment of said contents information bit rate includes a parameter, said parameter being an available memory size of a buffer memory of said interactive optical disc device.

Allowable Subject Matter

4. Claims 3-11 and 38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Other prior art cited

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Hoffberg et al, US pat. No.6,640,145.
- b. Yoon et al, US pub. No.20040103445.
- c. Hoffberg et al, US pat. No.7,006,681.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Dinh whose telephone number is (571) 272-3936. The examiner can normally be reached on Monday through Friday from 8:00 A.m. to 5:00 P.m.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, FOLLANSBEE JOHN, can be reached on (571) 272-3964. The fax phone number for this group is (571) 273-8300.

Art Unit: 2151

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner for patents
P O Box 1450
Alexandria, VA 22313-1450


KHANH DINH
PRIMARY EXAMINER
TECHNOLOGY CENTER 2100